

LISTING OF THE CLAIMS

A complete listing of the claims is provided below. This listing of claims will replace all prior versions and listings of claims in the application.

CLAIMS:

1. (Currently amended) A rotary positive displacement machine comprising:
a casing having a circular cylindrical internal surface delimiting an operating chamber;
an orbiting piston in the operating chamber, the orbiting piston being mounted so as to orbit about a chamber axis which is the axis of the [[said]] internal surface, the orbiting piston comprising a non-rotating outer part and a rotating inner part, the outer part having a circular cylindrical external surface, the chamber axis passing through the orbiting piston, a generatrix of the external surface being adjacent to the [[said]] internal surface, and a diametrically opposite generatrix being spaced from the [[said]] internal surface;
a vane member mounted on the casing, the vane member having a tip face which faces the external surface of the orbiting piston and which has a length substantially equal to that of the orbiting piston; and
a linkage which connects the vane member to the orbiting piston so as to keep the tip face of the vane member adjacent the external surface of the orbiting piston;
wherein at least one of the [[said]] external and internal surfaces is provided with individual compliant strips which are distributed around the [[said]] one surface, run parallel to one another, and project above the [[said]] one surface, from respective grooves in the one surface, the distribution of the compliant strips being such that there is at least one of the compliant strips in contact with the other surface over the majority of the orbit of the orbiting piston.
2. (Currently amended) A machine as claimed in claim 1, in which each compliant strip narrows towards the other of the [[said]] external and internal surfaces.
3. (Currently amended) A machine as claimed in claim 1, in which each complaint strip has a land at a level above the [[said]] one surface.
4. (Currently Amended) A machine as claimed in claim 1, in which each compliant

strip is mounted in and protrudes from a groove ~~in the said one surface~~ which is wide beneath the one surface and the compliant strip is also wide beneath one surface.

5. (Cancelled)

6. (Previously presented) A machine as claimed in claim 4, in which the edges of the groove are chamfered.

7. (Previously presented) A machine as claimed in claim 4, in which the cross-sectional area of the groove is substantially equal to or greater than the cross-sectional area of the compliant strip.

8. (Previously presented) A machine as claimed in claim 1, in which each compliant strip is made of an elastomer.

9. (Currently amended) A machine as claimed in claim 1, in which only one of the [[said]] external and internal surfaces is provided with the [[said]] compliant strips.

10. (Currently amended) A machine as claimed in claim [[1]] 8, in which the [[said]] one surface is the external surface of the orbiting piston.

11. (Currently amended) A machine as claimed in claim 1, in which both of the [[said]] external and internal surfaces are provided with the [[said]] compliant strips.

12. (Cancelled)

13. (Cancelled)

14. (Currently amended) A machine as claimed in claim [[13]] 1, in which the outer part comprises an extruded body.

15. (Previously presented) A machine as claimed in claim 1, including a disc at one end of the orbiting piston, the disc rotating about the chamber axis in synchronism with the orbiting piston and delimiting one end of the operating chamber.

16. (Previously presented) An assembly comprising a first rotary positive displacement machine according to claim 1 and a second rotary positive displacement machine.

17. (Currently amended) An assembly as claimed in claim 16, in which the two machines are fixed end-to-end and have a common axis.

18. (Previously presented) An assembly as claimed in claim 16, in which the two machines are arranged side-by-side with parallel axes.